

# BloSS@M: Security Assessment Automation with OSCAL

**NIST** National Institute of  
Standards and Technology  
U.S. Department of Commerce

ITL/CSD/OSCAL Team  
3<sup>rd</sup> OSCAL Workshop

# Why do we need BloSS@M?



Agencies need

- to acquire software.
- allocate software licenses.
- securely operate and manage the software in their environment.
- understand the impact of that software on their environment.

# What is BloSS@M?



A proof-of-concept software asset management system that:

- Enables upward aggregation, downward distribution, and sharing of software assets
- Proposes a mutual trust system where agencies deploy peer nodes in a multi-agency consortium
- Is built using Hyperledger Fabric's permissioned blockchain
- Demonstrates security assessment automation & continuous ATO with OSCAL

# Why DevSecOps?

# How do Sec across Dev and Ops?

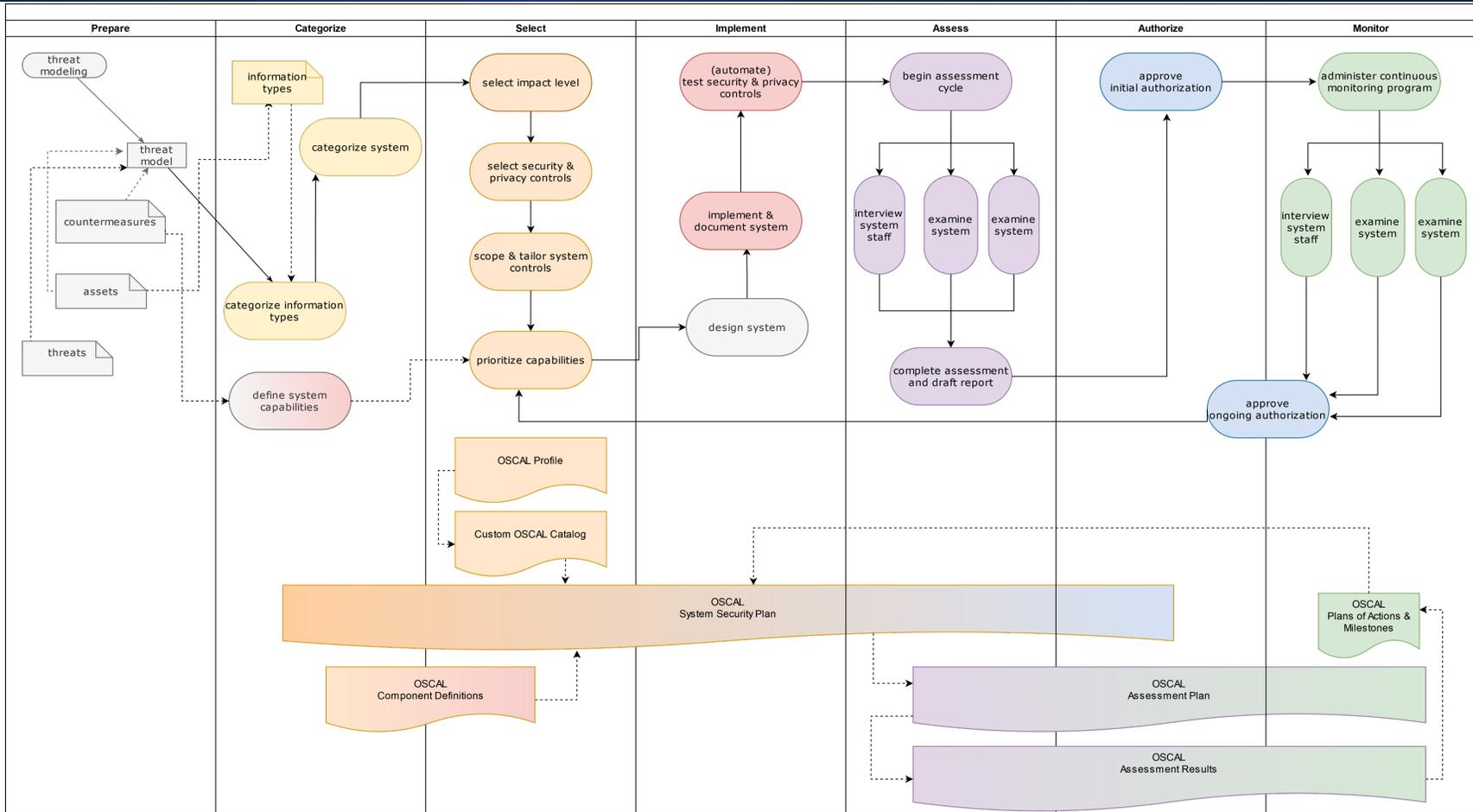


- Why do we secure first?
- How do we secure first?
- What do we secure first?

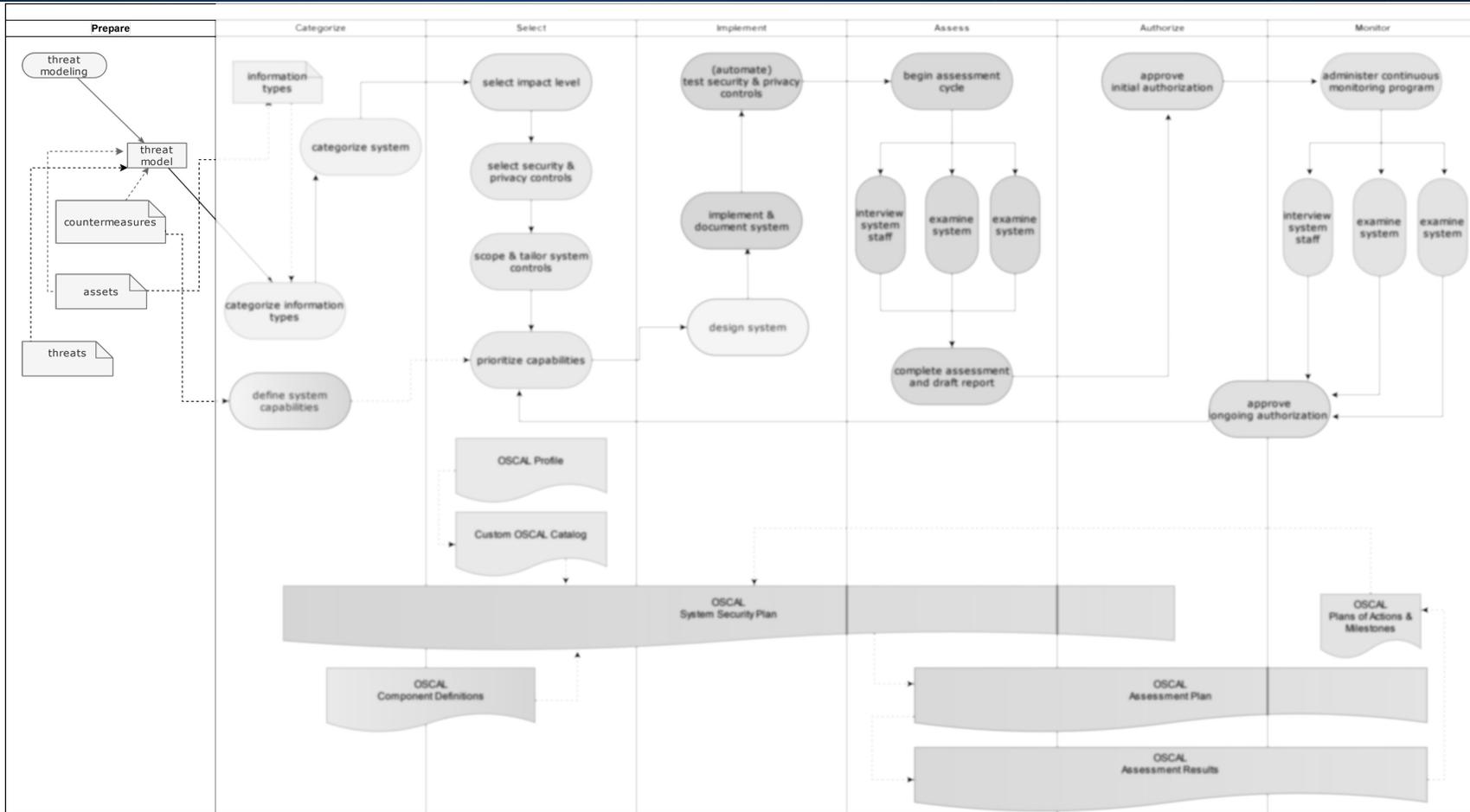
- What are the attack steps we need to defend against?
- What are capabilities and sub-capabilities to protect against attack steps?
- What are the security controls do we select and how do we automate pre-assessment?

Source: [Automation Support for Security Control Assessments \(NIST IR 8011\)](#)

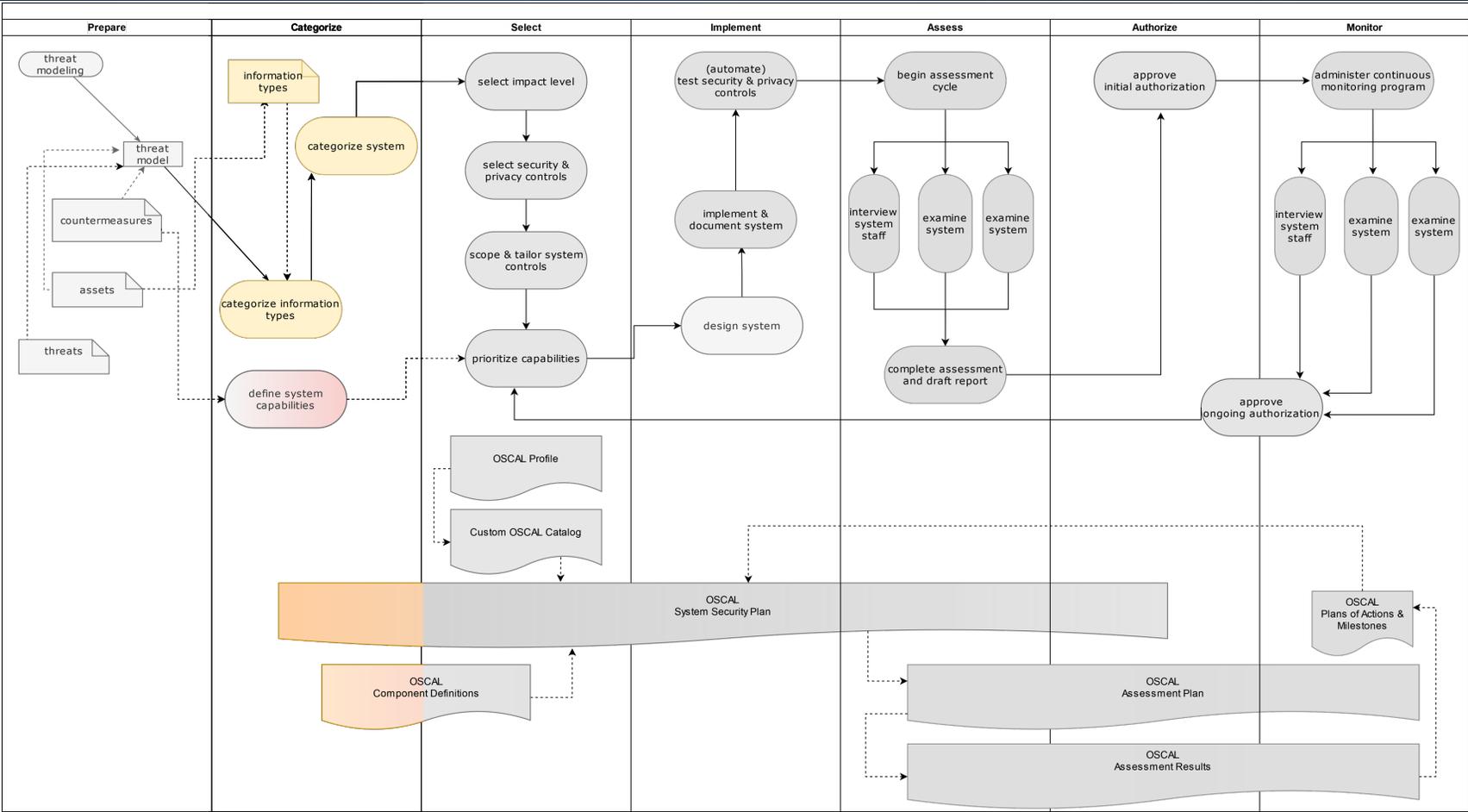
# The Best SDLC: DevSecOps with OSCAL



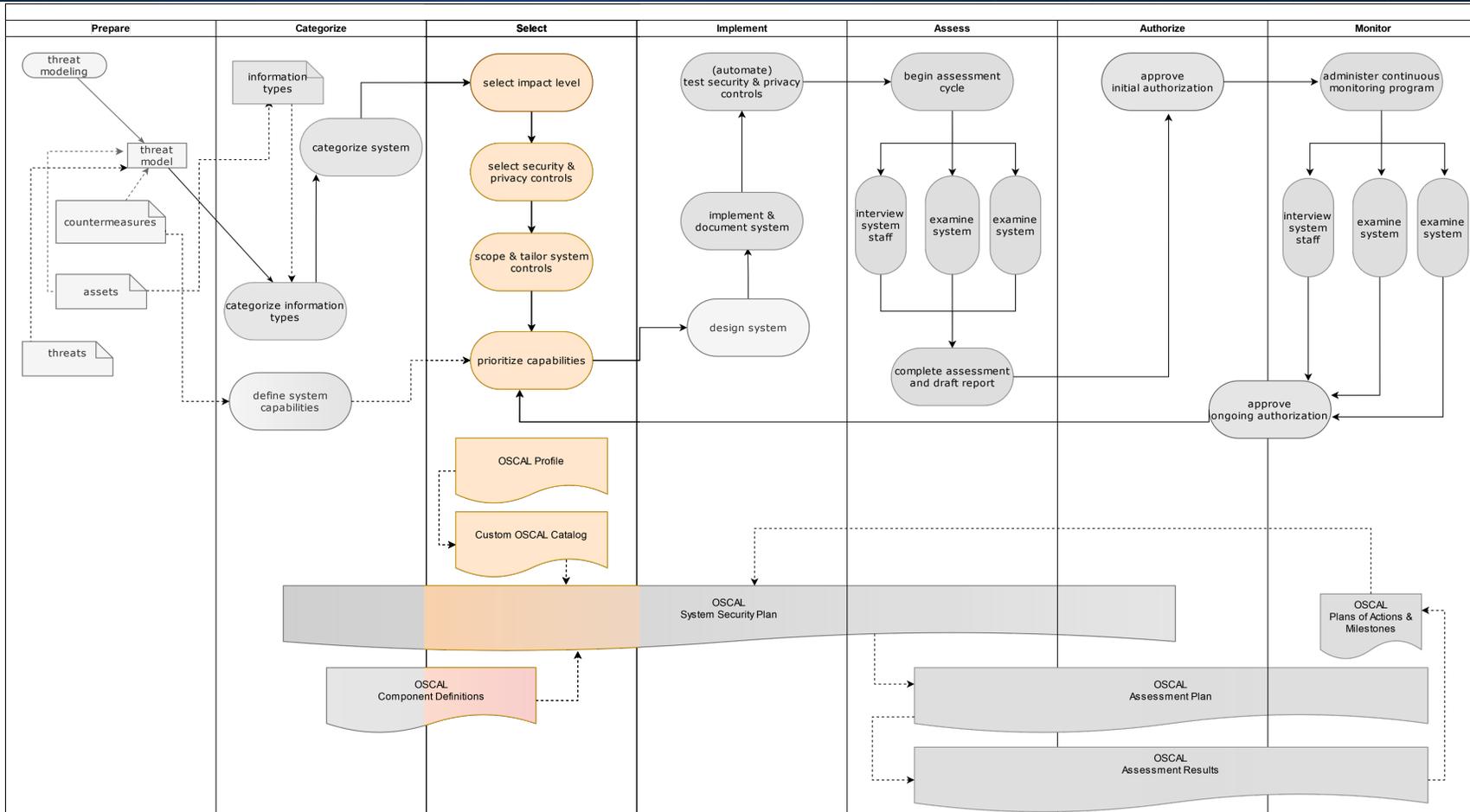
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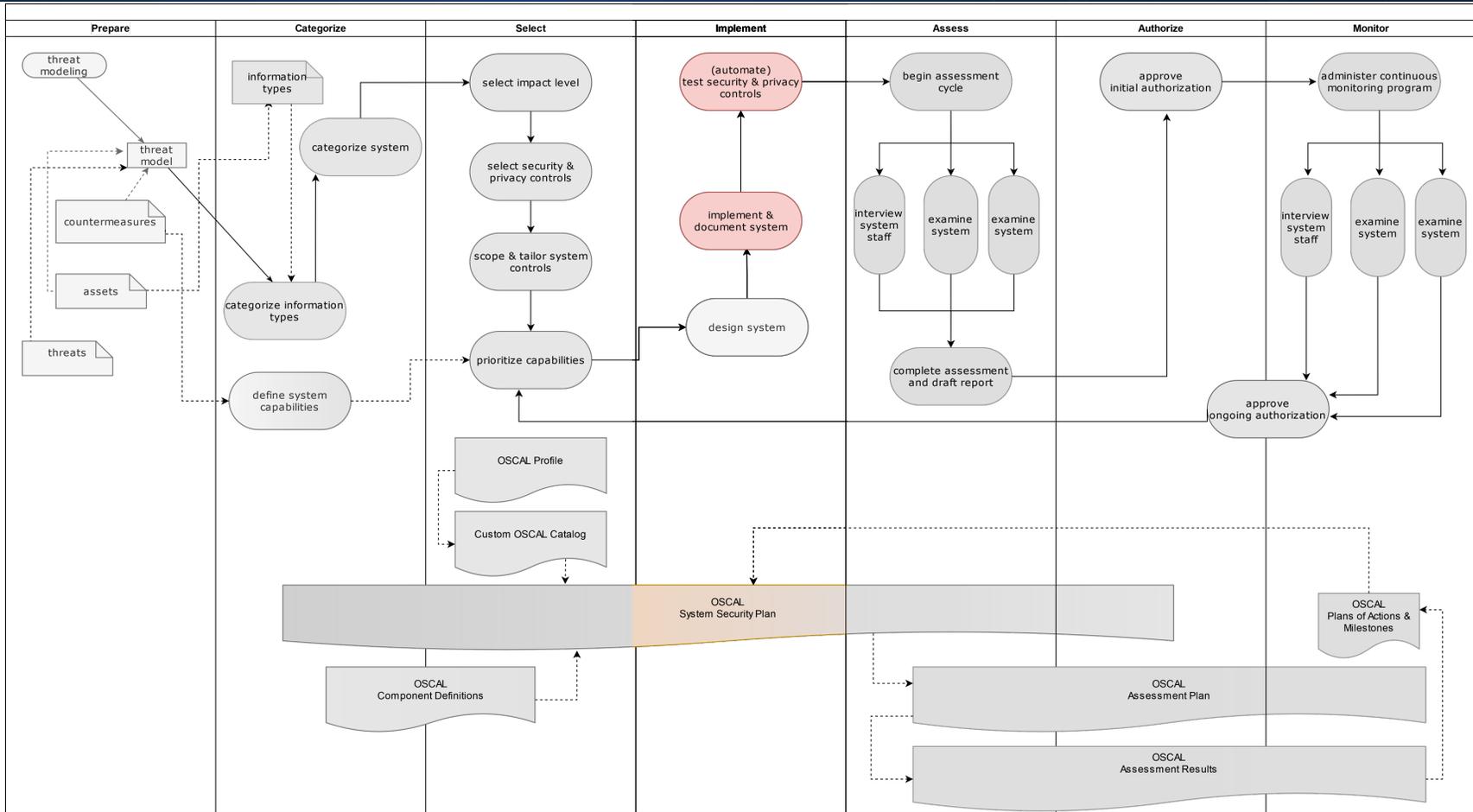
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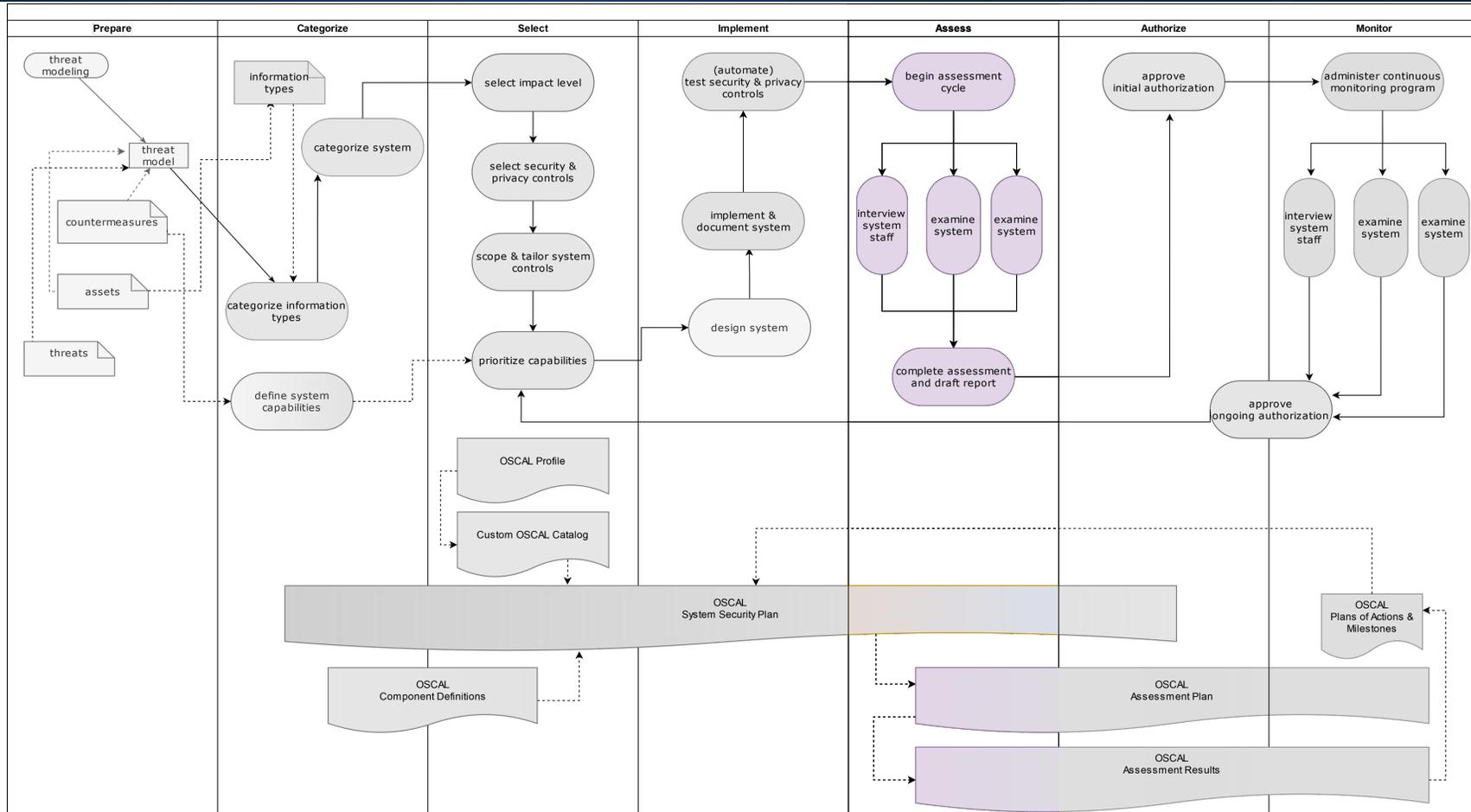
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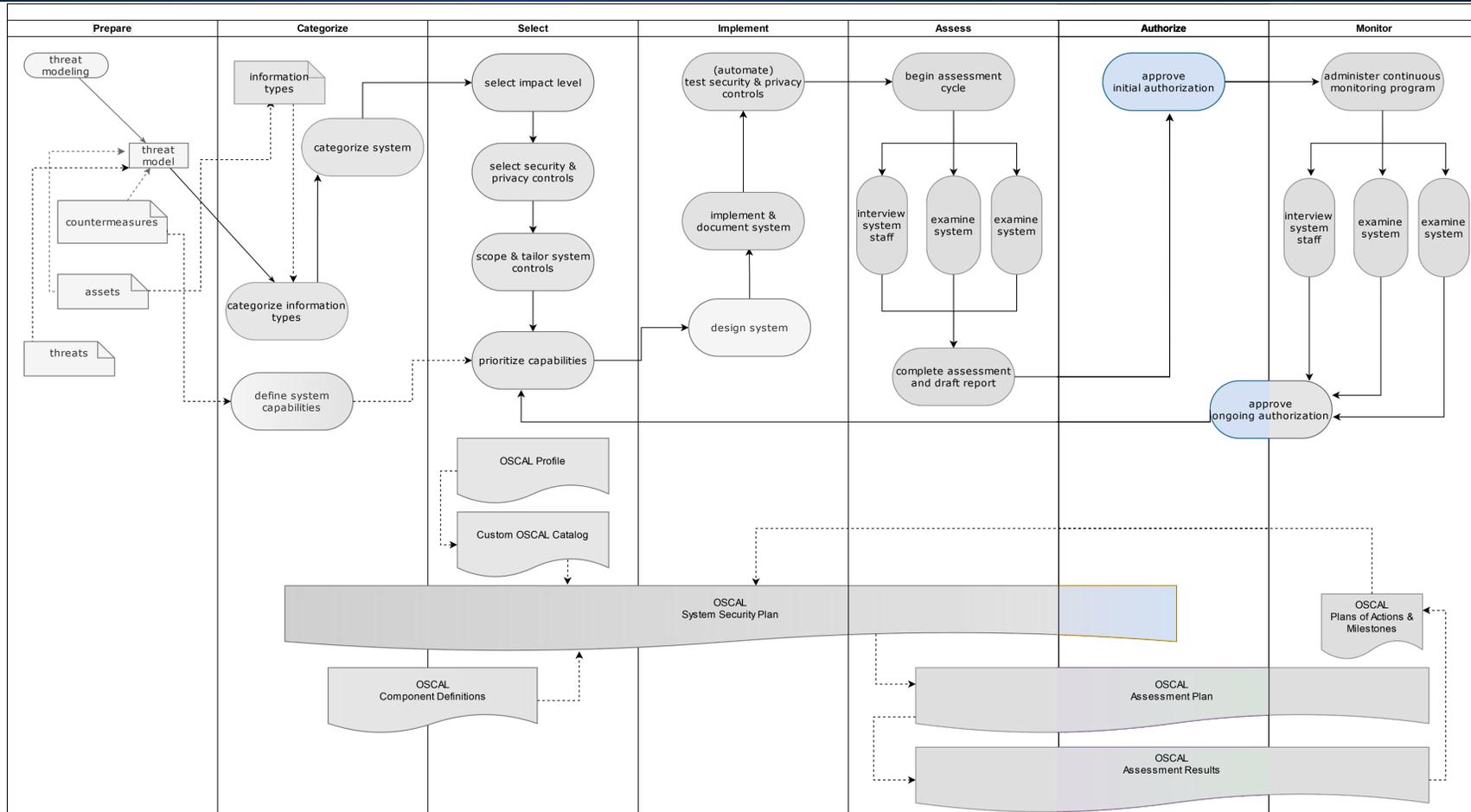
# Implement



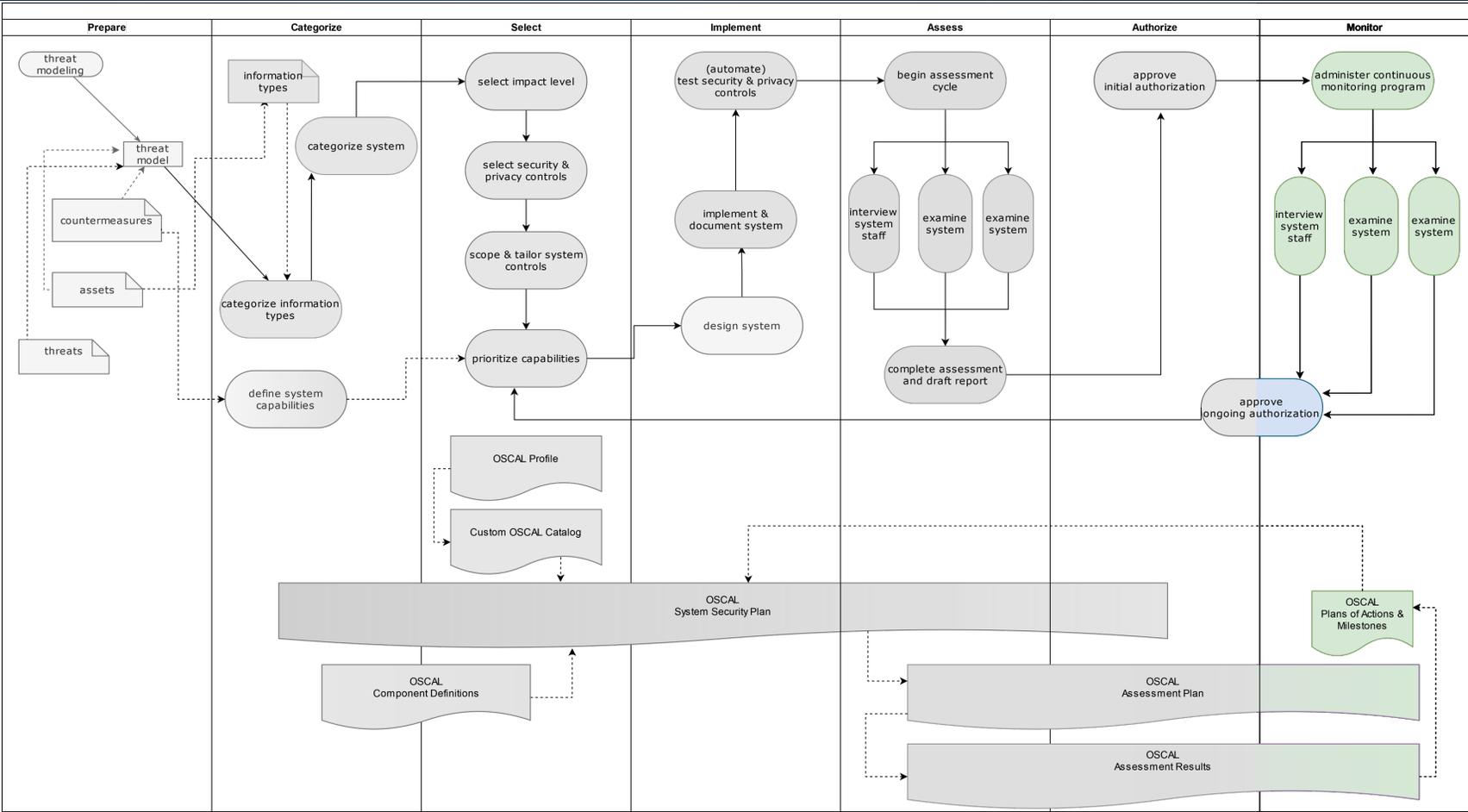
# Assess



# Authorize



# Monitor





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